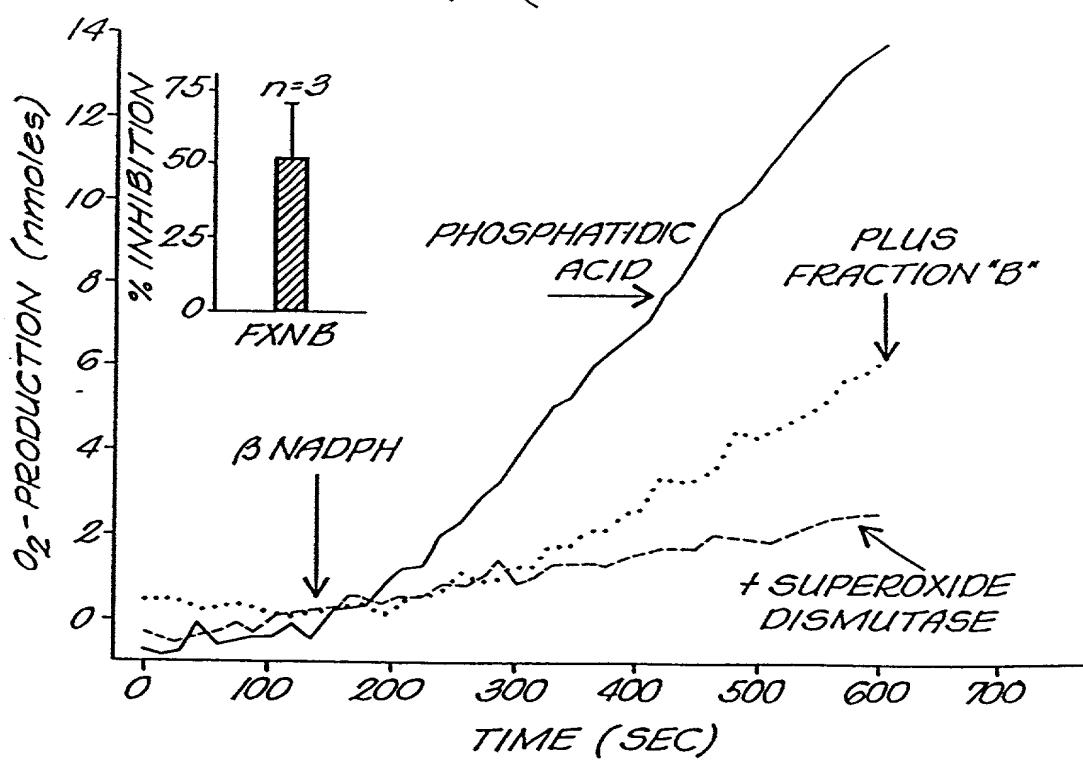
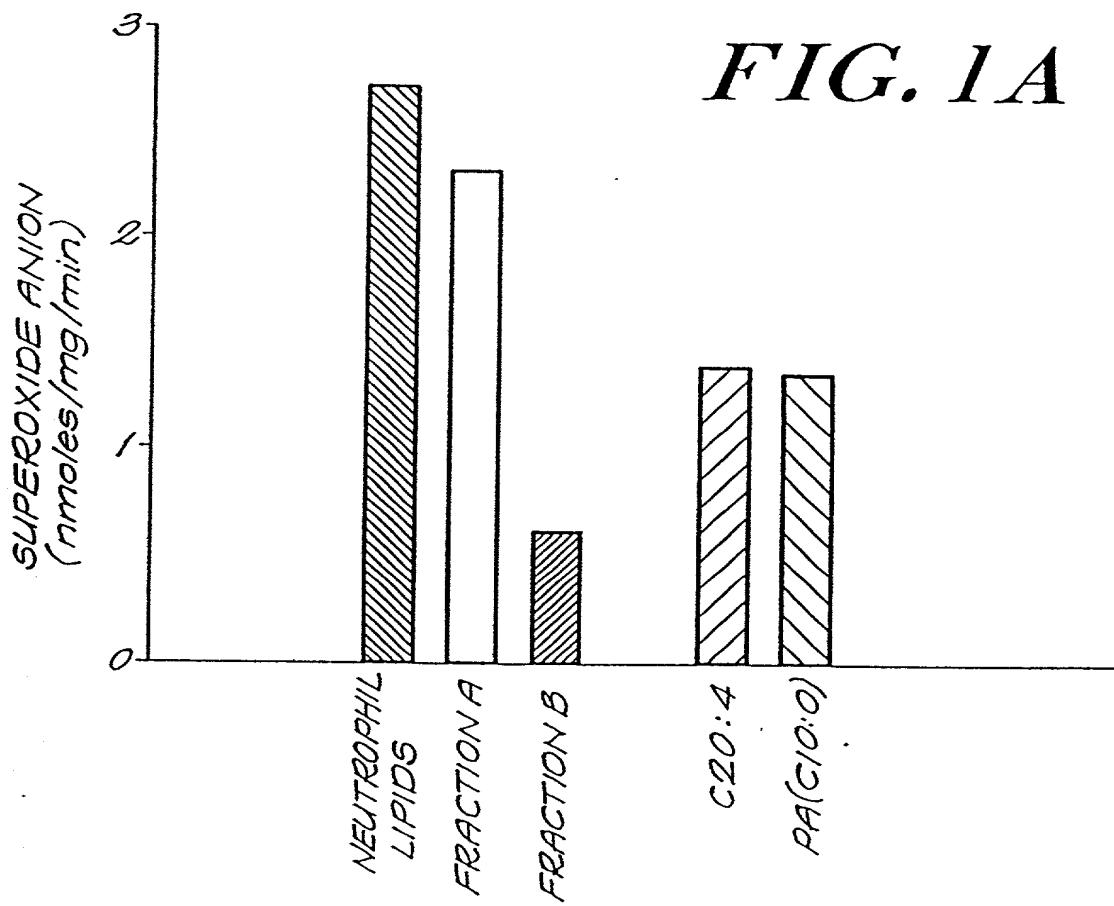


FIG. IA*FIG. IB*

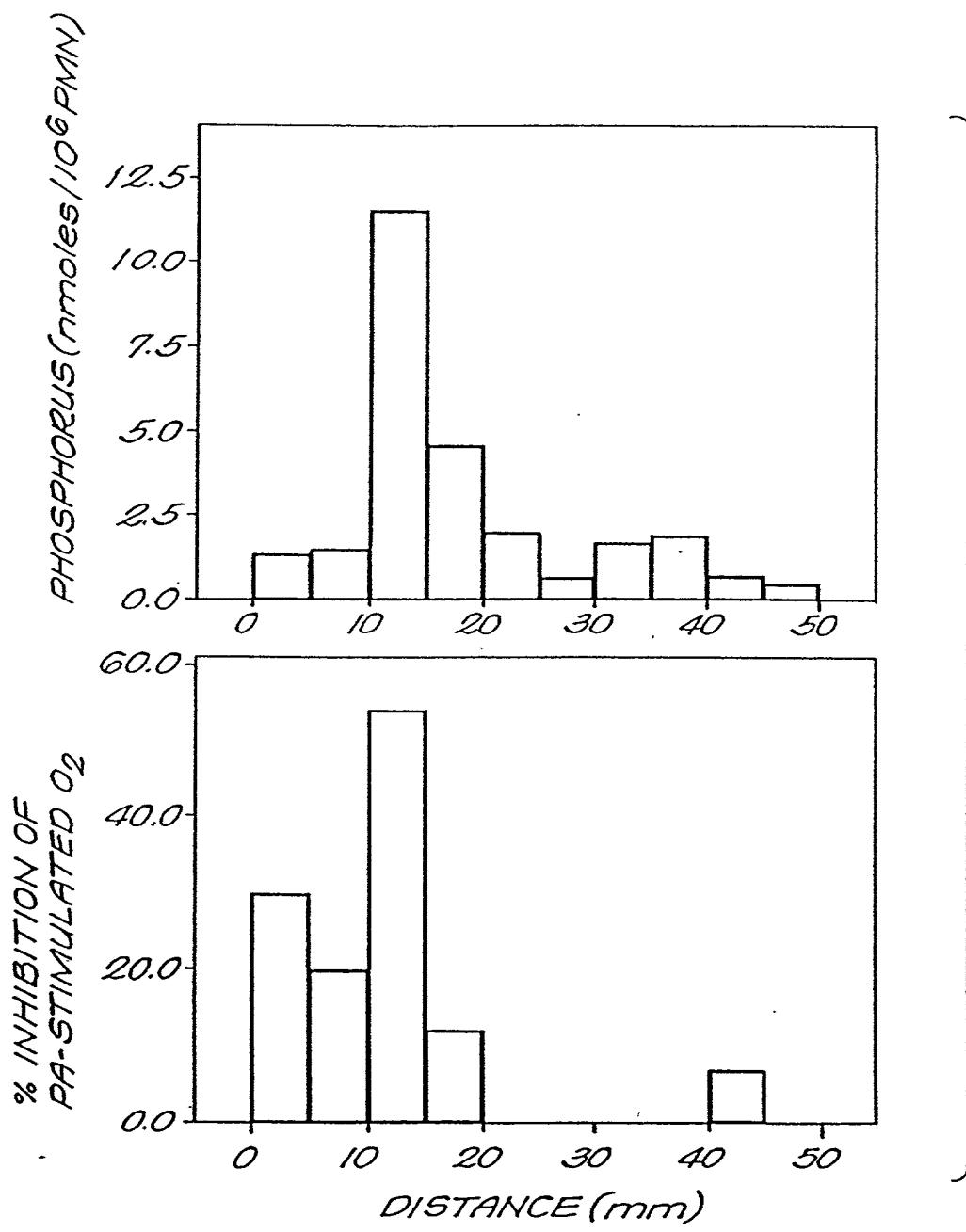


FIG. IC

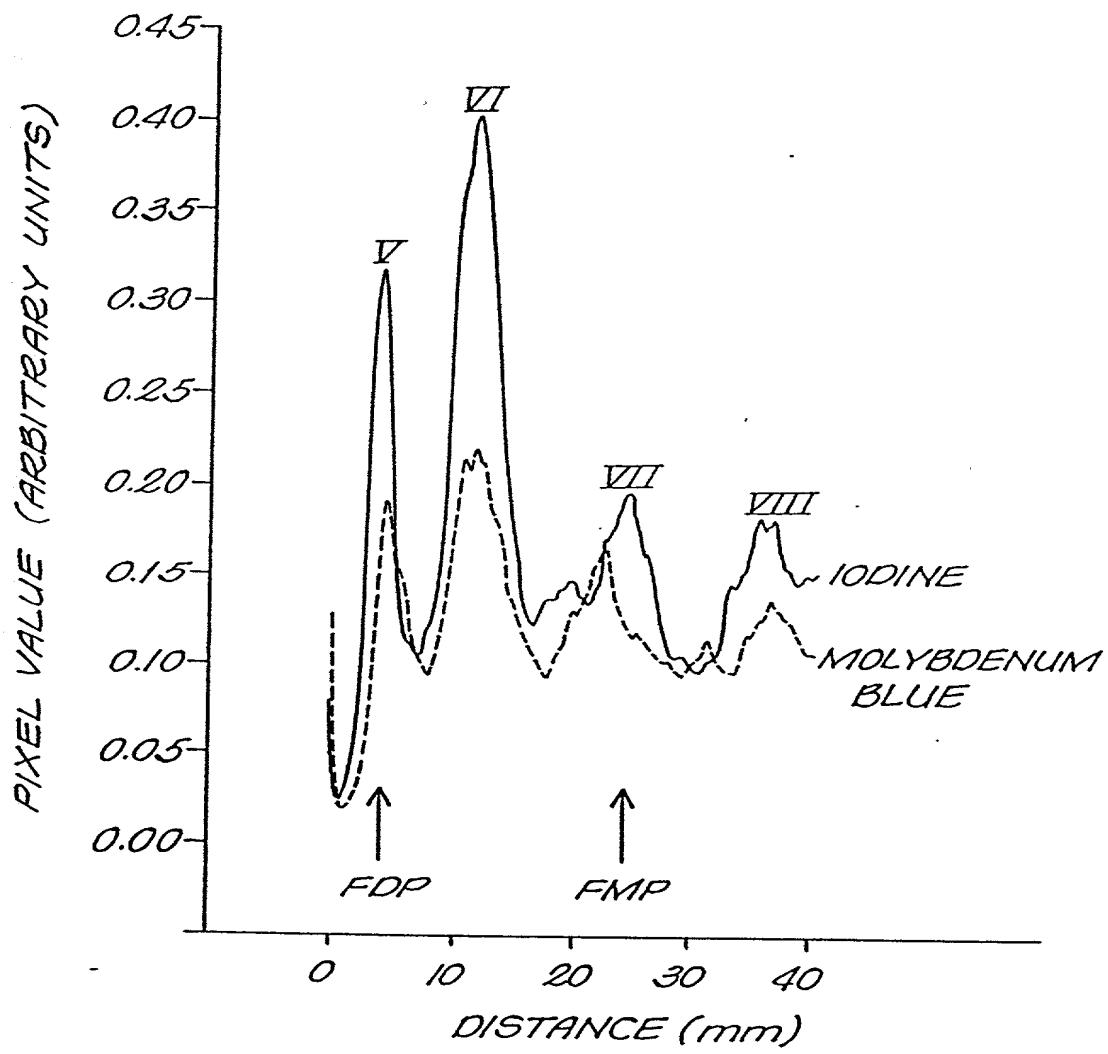


FIG. ID

e RF VALUE: COMPOUNDS V-VIII VS. STANDARDS

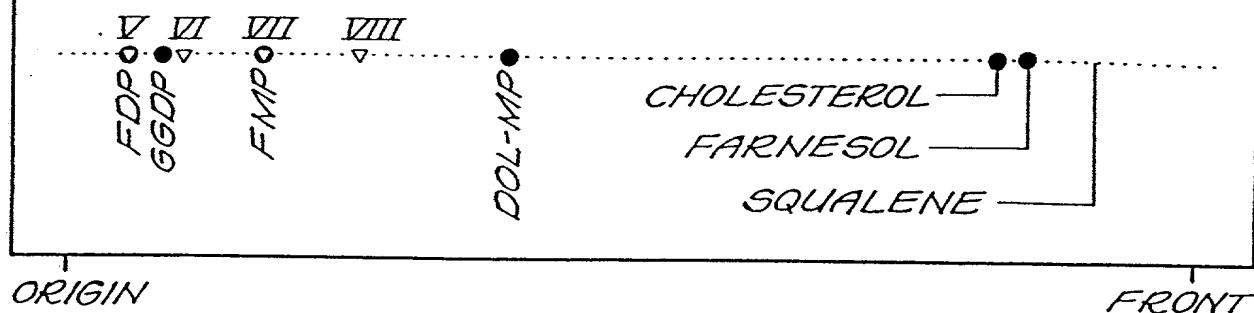


FIG. 1E

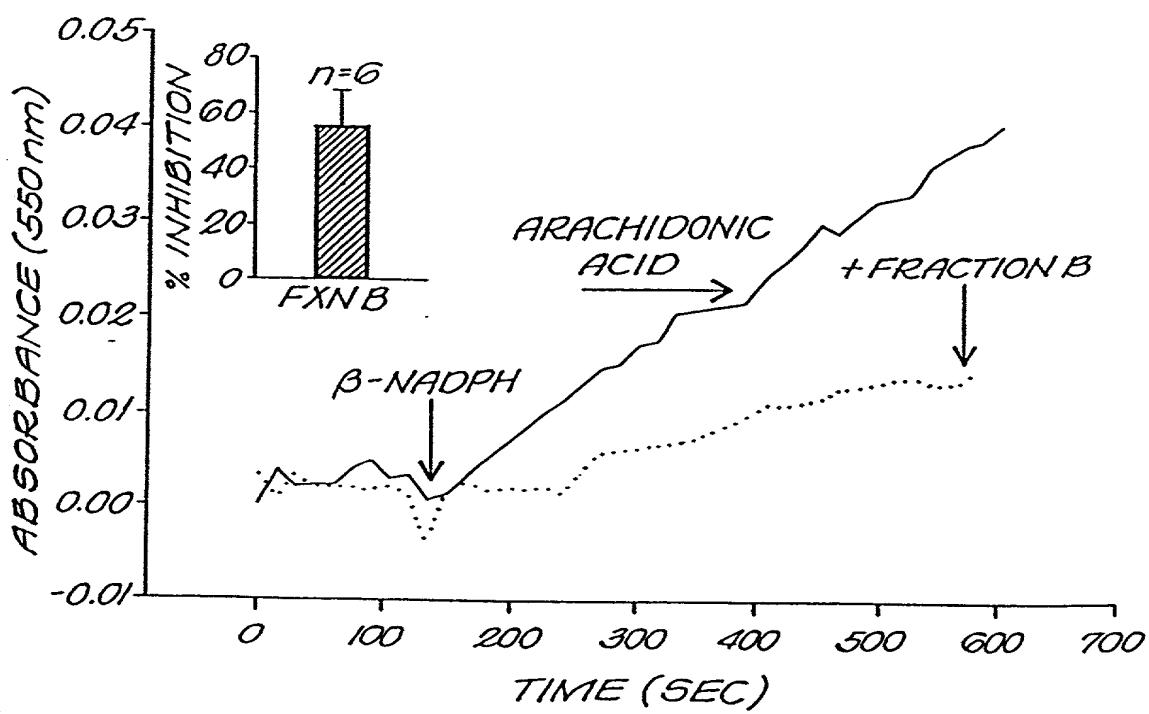


FIG. 1F

<u>COMPOUND</u>	<u>INORGANIC PHOSPHORUS</u> (#)	<u>INORGANIC PHOSPHORUS</u> (nmoles)	<u>DENSITY ON TLC</u> (ARBITRARY UNITS)	<u>PHOSPHORUS / DENSITY</u>
VI	8.77	8.77	1.75	5.01
VII	4.10	4.10	1.52	2.70
VIII	7.34	7.34	2.80	2.62

INORGANIC PHOSPHORUS / SCANNING DENSITOMETRY: COMPOUND VI / COMPOUND VII = 1.86
COMPOUND VI / COMPOUND VIII = 1.91

THESE RATIOS INDICATE THAT: a) COMPOUND VI IS A DIPHOSPHATE, AND
b) COMPOUND VII & VIII ARE MONOPHOSPHATES.

FIG. 1G

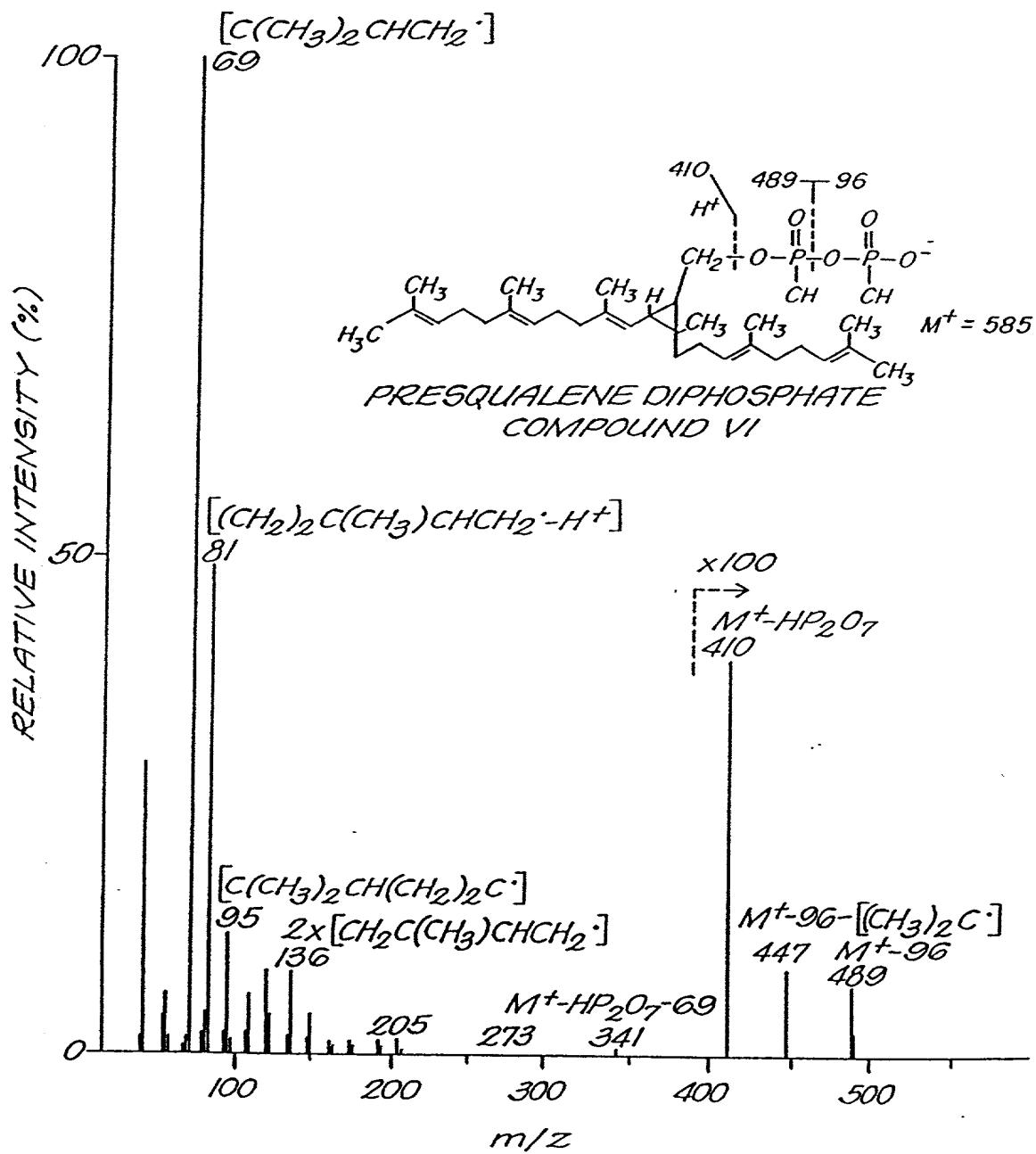


FIG. 2A

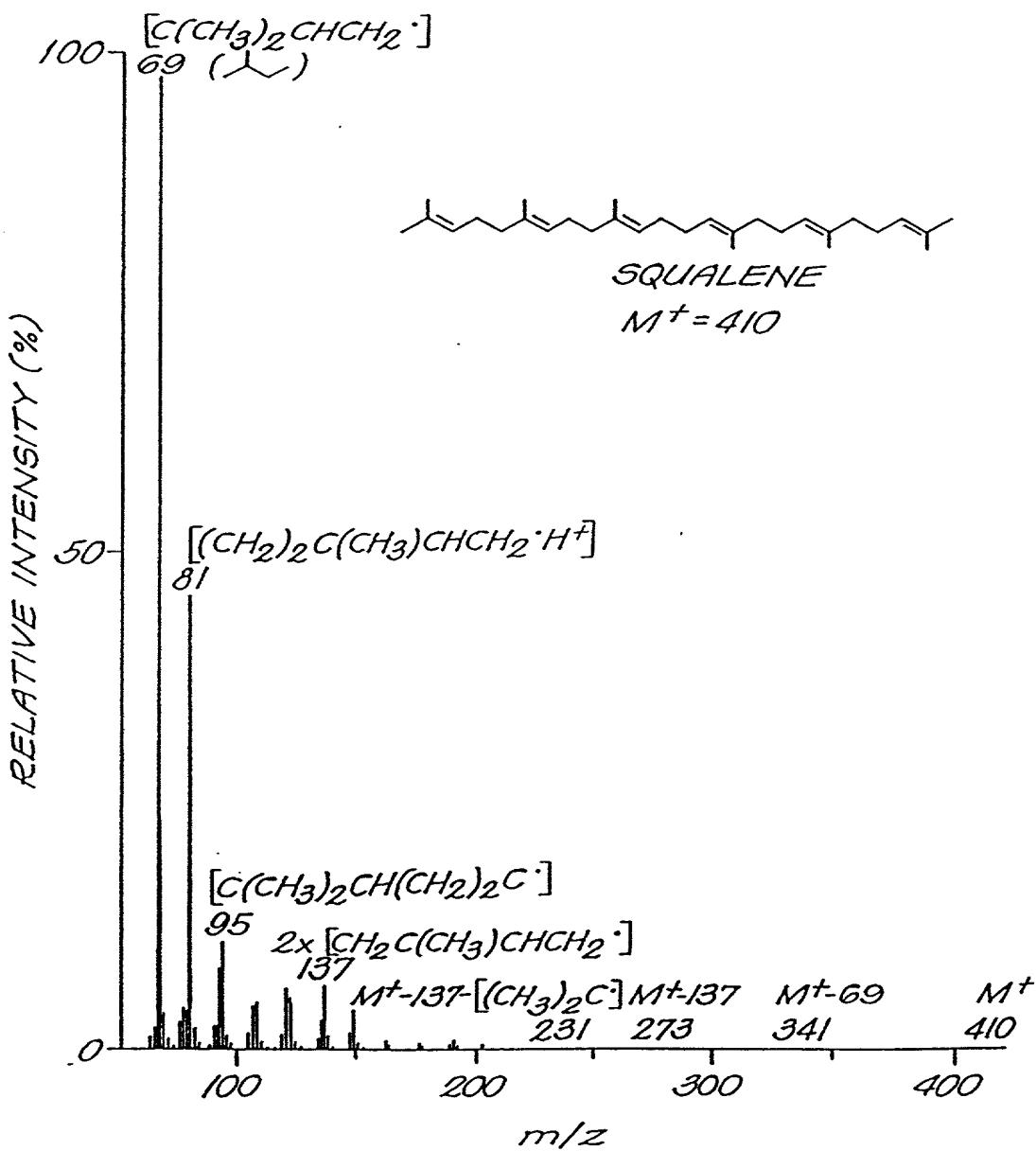


FIG. 2B

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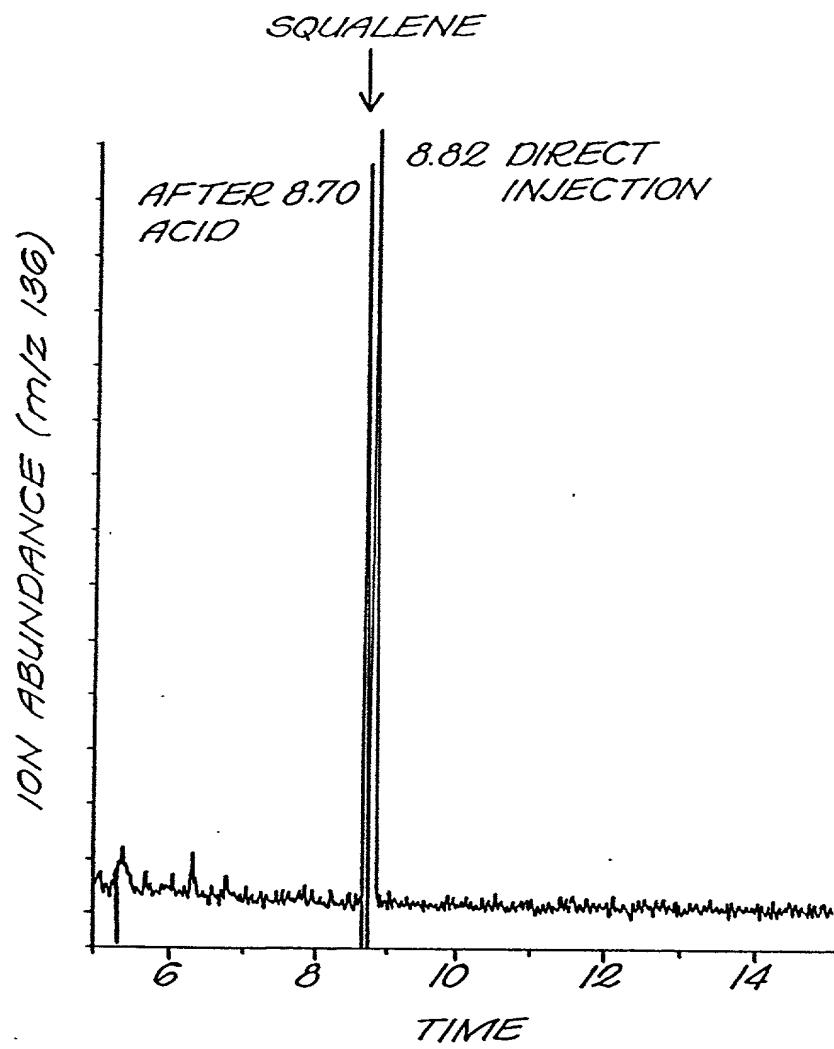


FIG. 2C

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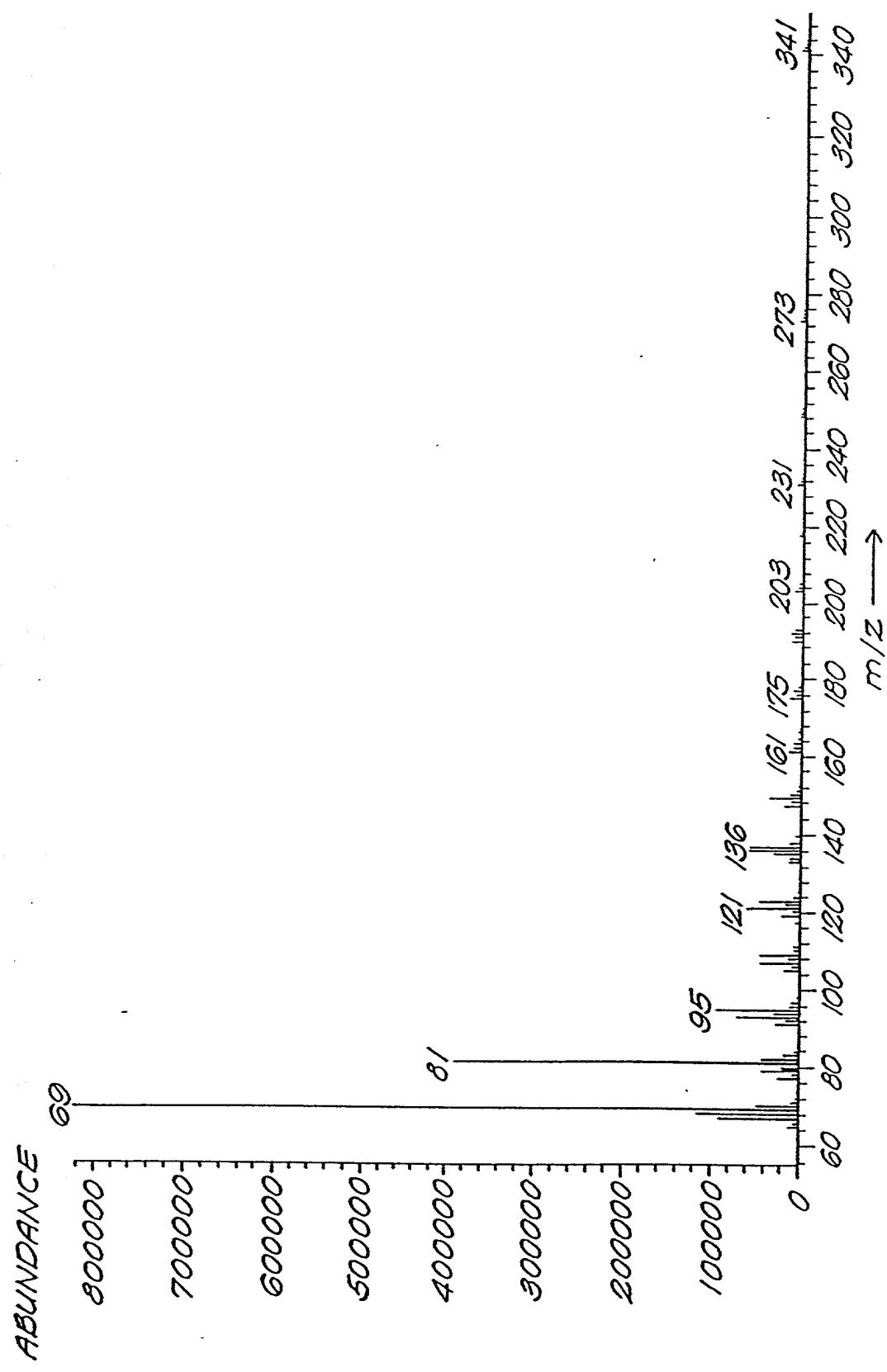


FIG. 2D

<u>PMN LIPID</u>	<u>TLC¹:</u> <u>R/TDOL-P Ry</u>	<u>GCMS²:</u> <u>DIRECT INJECTION</u>	<u>OTMS DERIVATIVE</u>	<u>ACID HYDROLYSIS</u> <u>TO SQUALENE</u>	<u>PHOSPHORUS³:</u> <u>nmoles/10⁷ PMN</u>	<u>PROPOSED</u> <u>STRUCTURE:</u>
COMPOUND V	0.14 (± 0.02)	<u>4.39 MIN:</u> 235, 327, 261, 232, 220, 205, 189, 177, 91, 69	NP	—	0.11 (± 0.04)	FARNESYL- DIPHOSPHATE *
COMPOUND VI	0.25 (± 0.02)	<u>8.81 MIN:</u> 489, 447, 410, 341, 273, 205, 191, 136, 95, 81, 69	<u>9.28 MIN:</u> 486, 441, 405, 361	+	1.67 (± 0.32)	PRESQUALENE- DIPHOSPHATE
COMPOUND VII	0.44(± 0.03)	NP	<u>5.72 MIN:</u> 356, 341, 313, 281, 207, 191, 145, 117, 97, 73, 69	—	0.35 (± 0.13)	FARNESYL- MONOPHOSPHATE *
COMPOUND VIII	0.66 (± 0.04)	<u>8.81 MIN:</u> 481, 403, 342, 268, 177, 136, 95, 81, 69	<u>9.15 MIN:</u> 486, 441, 403, 361	—	0.47 (± 0.12)	PRESQUALENE- MONOPHOSPHATE

FIG. 2E

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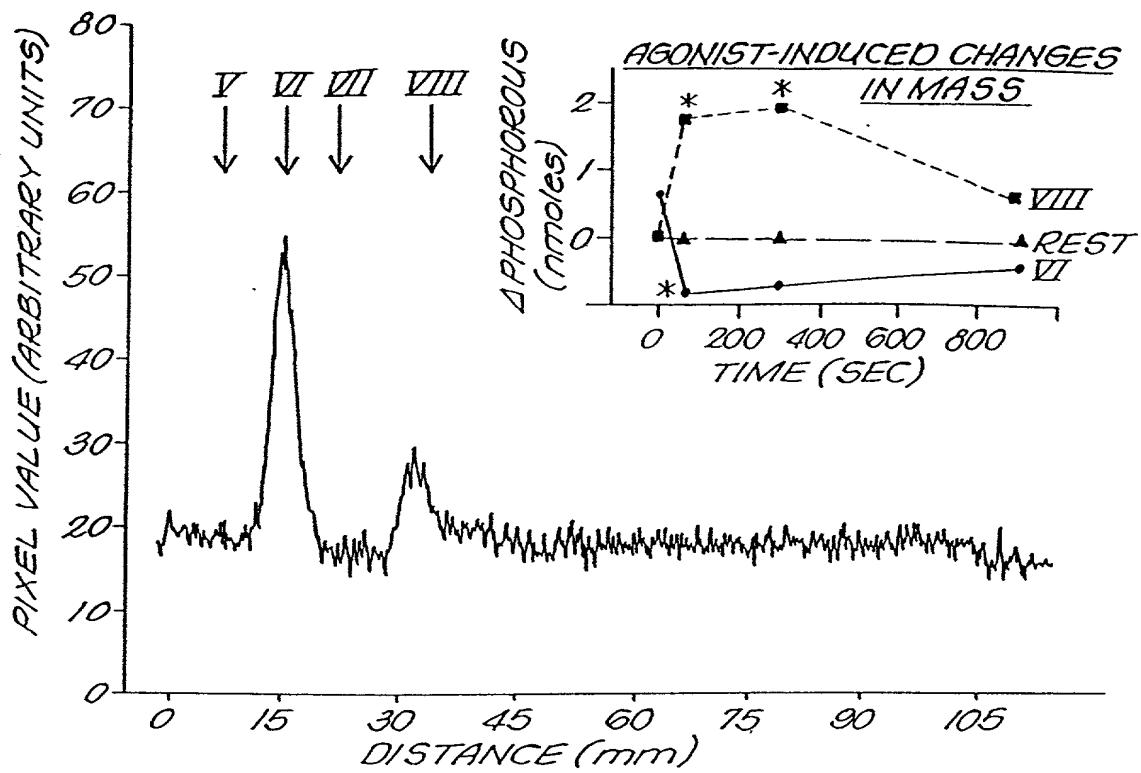


FIG. 3A

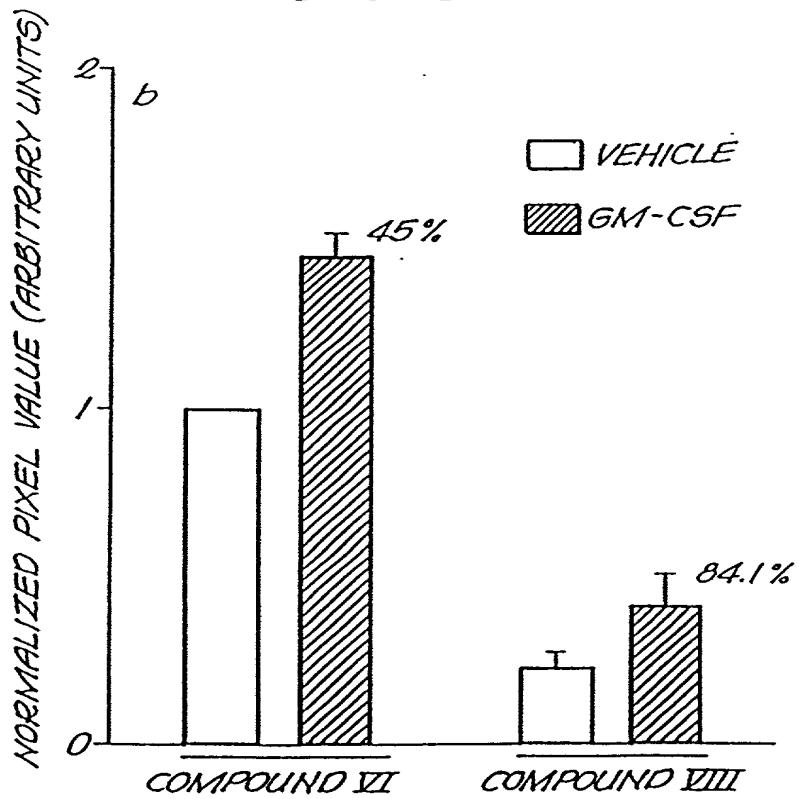


FIG. 3B

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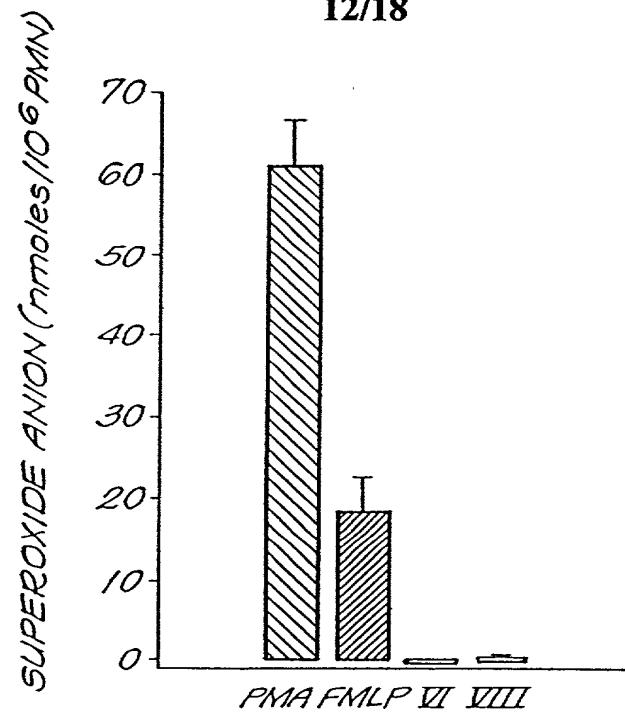


FIG. 3C

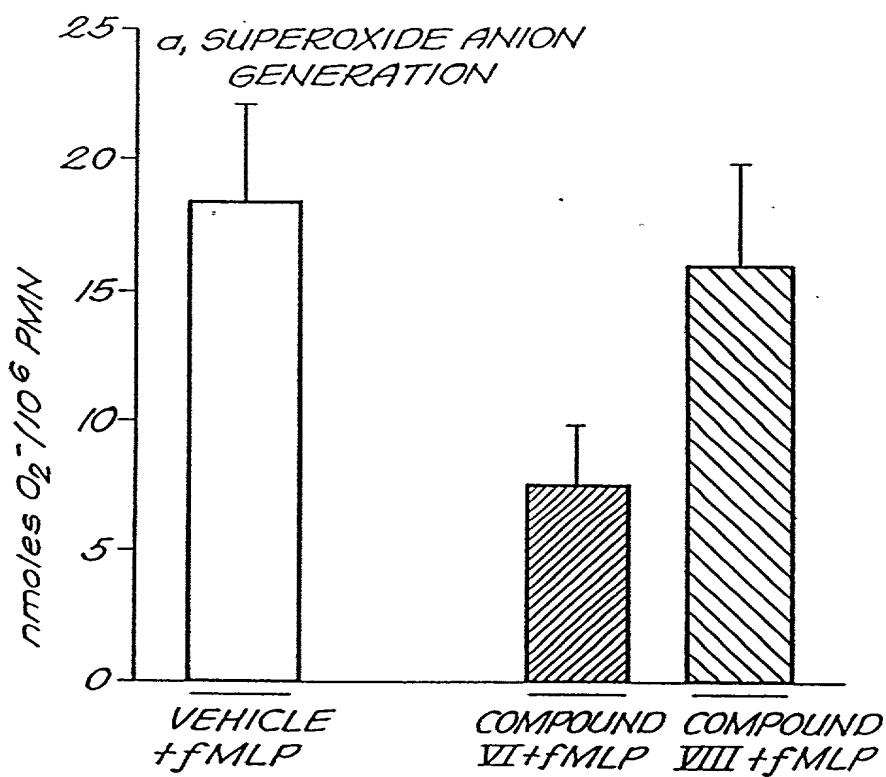
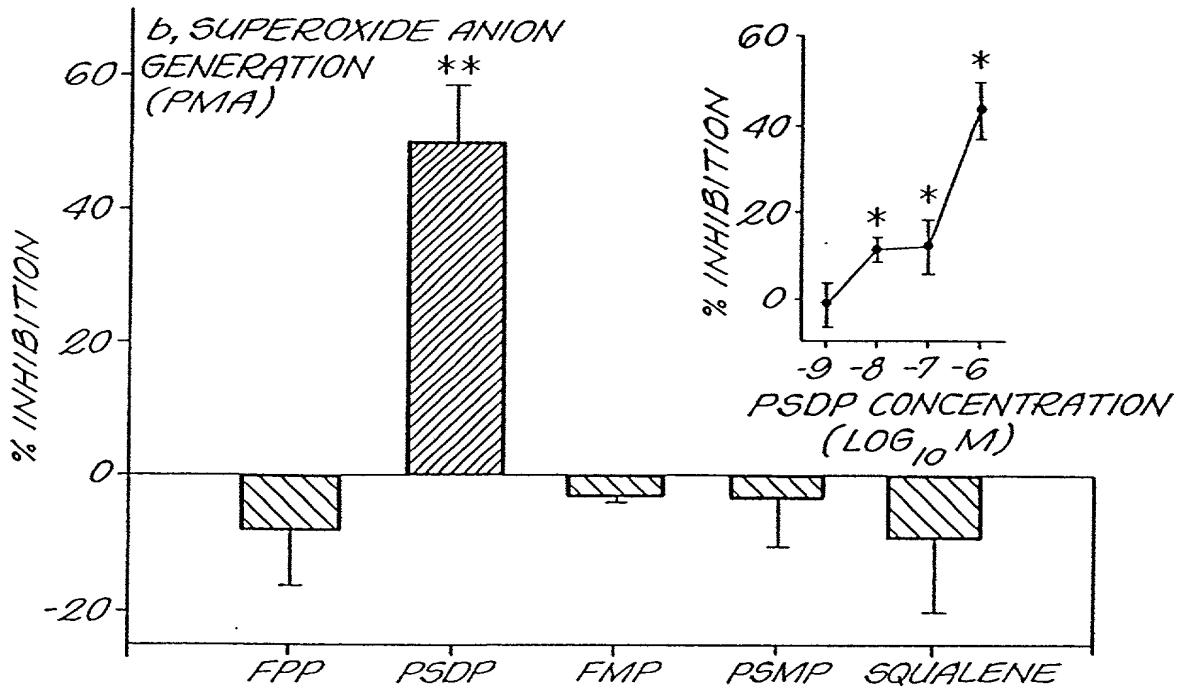
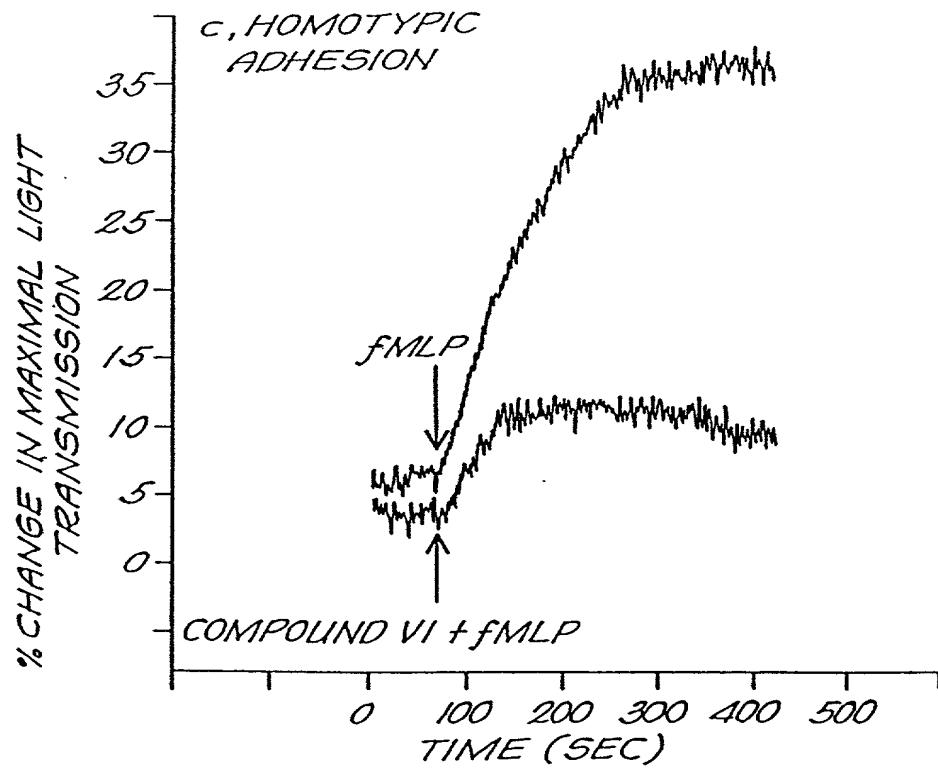


FIG. 4A

*FIG. 4B**FIG. 4C*

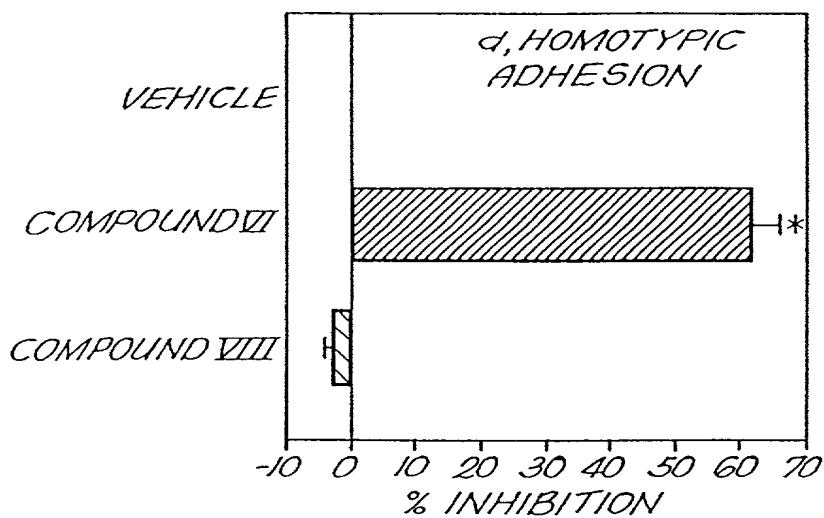


FIG. 4D

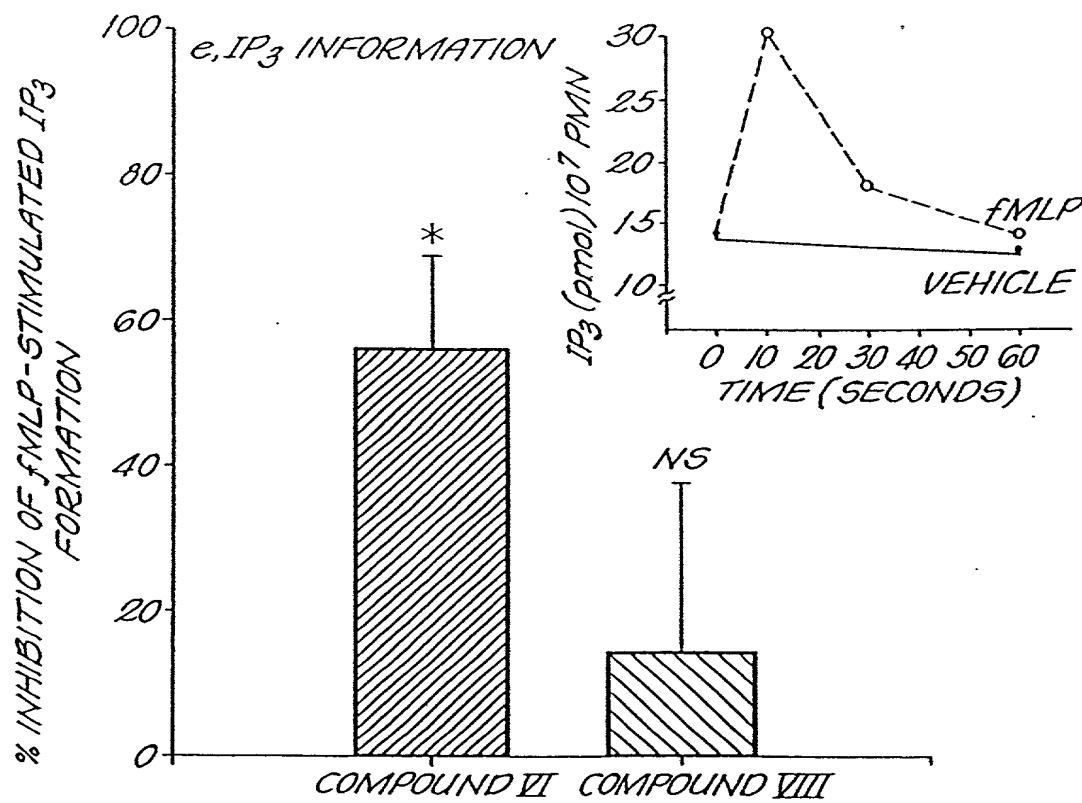
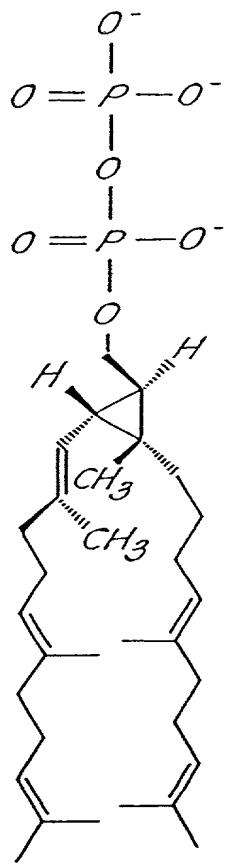


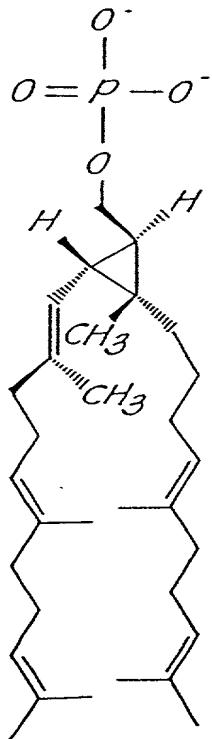
FIG. 4E



PSDP (COMPOUND VI)

- INHIBITION OF O_2^- GENERATION
- INHIBITION OF HOMOTYPIC ADHESION
- INHIBITION OF IP_3 INFORMATION

PMN RECEPTOR
ACTIVATION →



PSMP (COMPOUND VIII)

INACTIVE

FIG. 4F

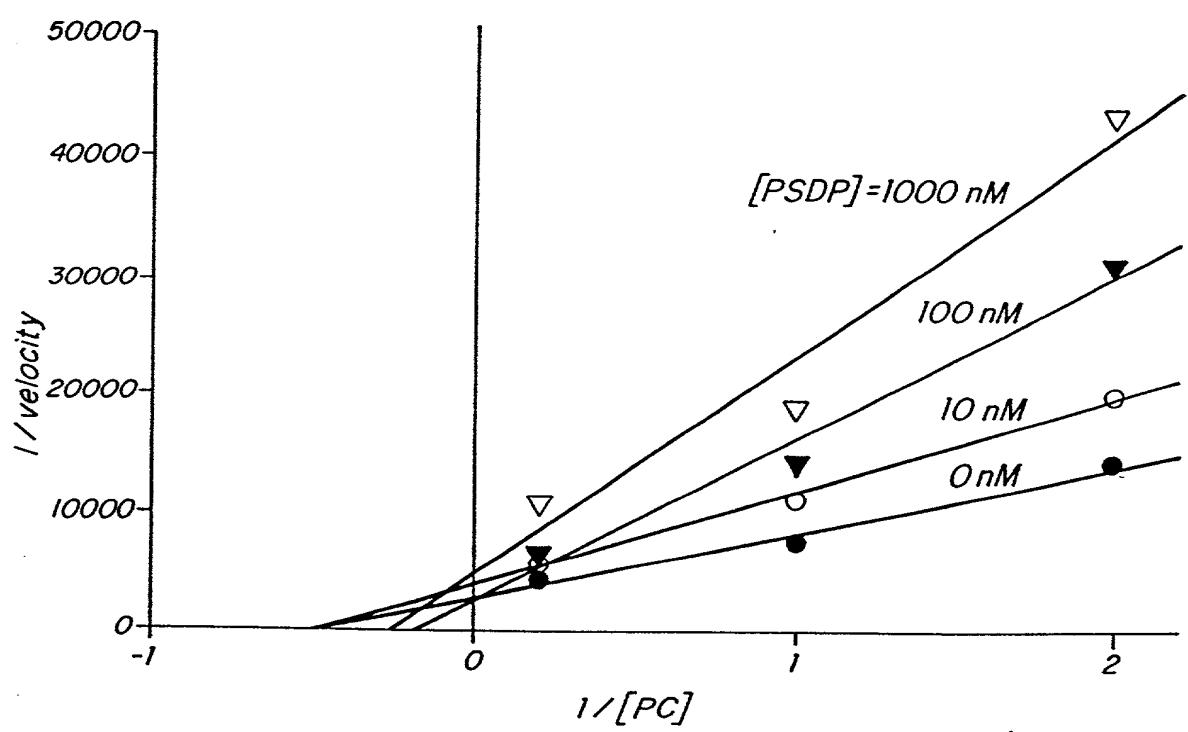
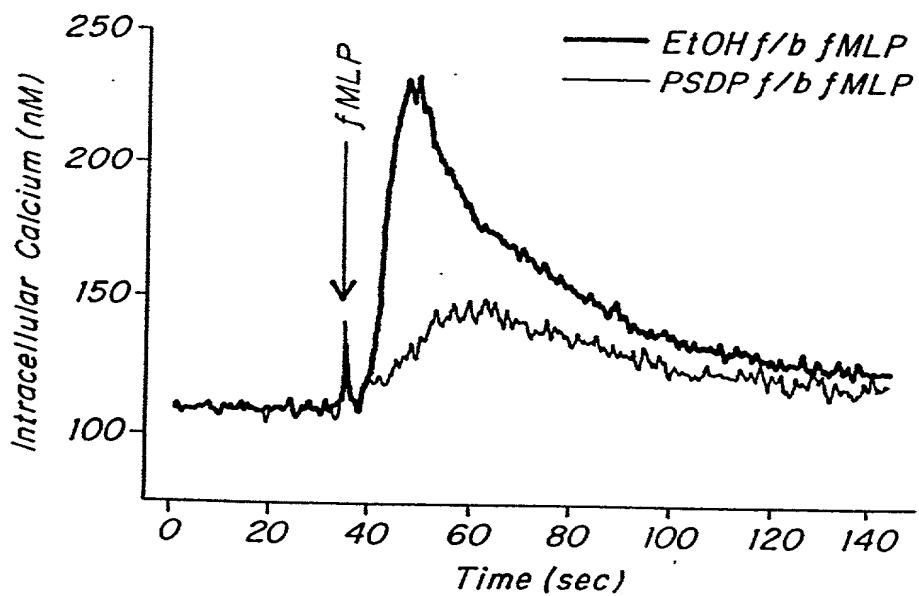
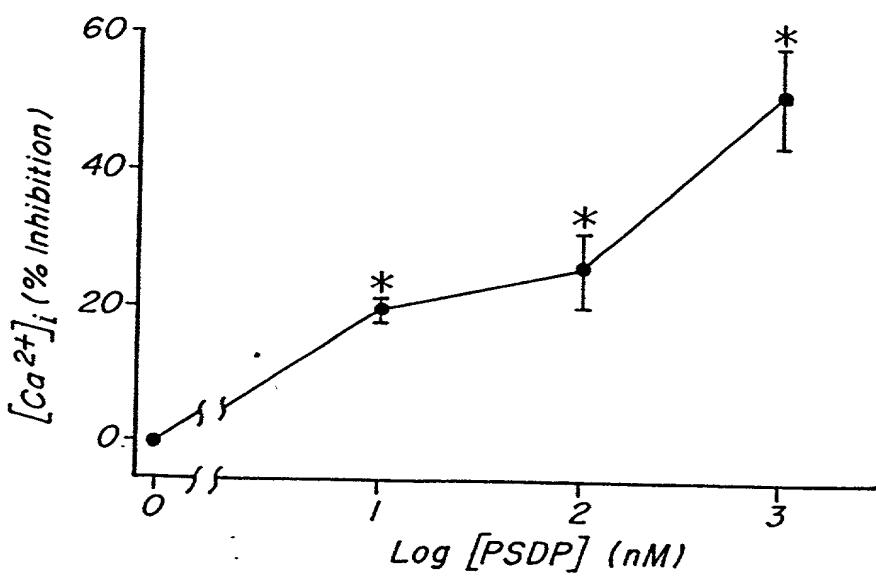
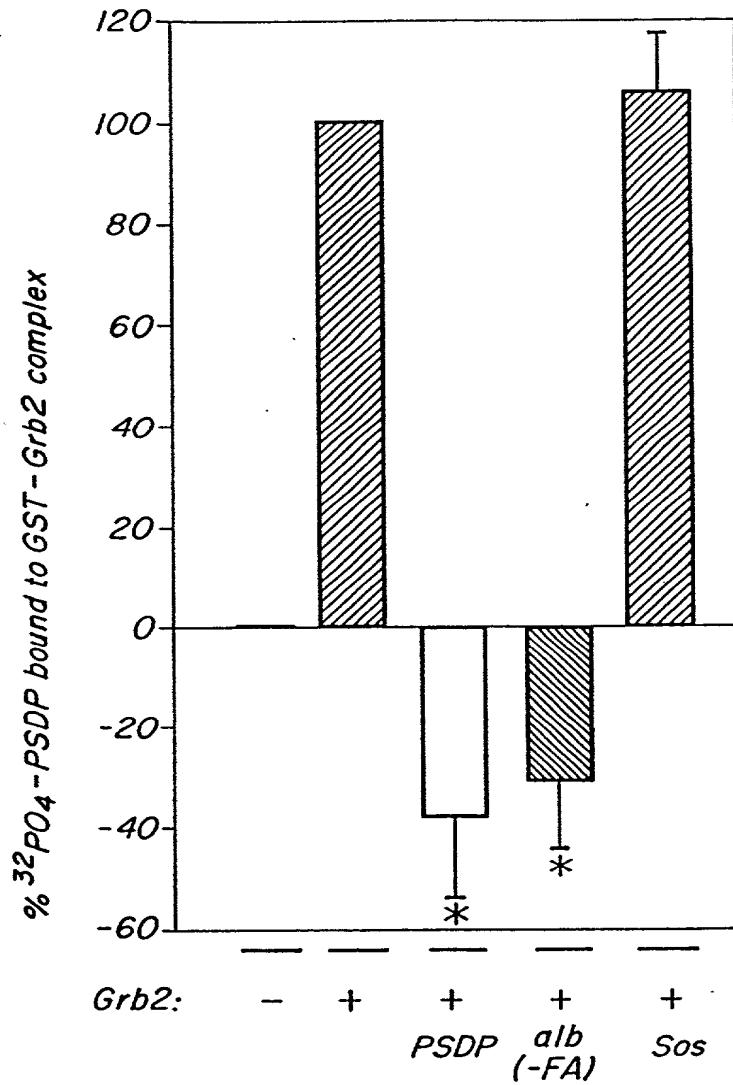


FIG. 5

**FIG. 6****FIG. 7**

**FIG. 8**